

# WATER QUALITY M E M O R A N D U M

Utah Coal Regulatory Program

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April 14, 2005

TO: Internal File

THRU: D. Wayne Hedberg, Permit Supervisor

FROM: James D. Smith, Environmental Scientist

RE: 2004 Fourth Quarter Water Monitoring, Andalex Resources, Inc., Centennial Project, C/007/0019, Task ID # 2212

The monitoring plan is described in Section R645-301-711.300 of the MRP. Monitoring sites are shown on Figure IV-11. Reports for many monitoring sites are typically no-flow.

**1. Were data submitted for all required sites?**

**Springs** YES ☒ NO ☐

There was no flow at two of the four monitored springs.

**Streams** YES ☐ NO ☒

No report for AC-1, B263, and Stock Pond 31-1, new sites added in October 2004. No-flow reported for the other ten sites.

**Well** YES ☒ NO ☐

One well is monitored.

**UPDES** YES ☒ NO ☐

There was no discharge for all four sites.

**2. Were all required parameters reported for each site?**

**Springs** YES ☒ NO ☐

**Streams** YES ☒ NO ☐

**Well** YES ☒ NO ☐

**UPDES** YES ☒ NO ☐

**3. Were irregularities found in the data?**

**Springs** YES ☒ NO ☐

B351: water temperature (n = 12) was outside two standard deviations.

S18-1: Cl (n = 10) was outside two standard deviations.

**Streams** YES ☐ NO ☒

**Wells** YES ☒ NO ☐

Well #1: TDS (n = 29) was outside two standard deviations.

**UPDES** YES ☐ NO ☒

**4. On what date does the MRP require a five-year resampling of baseline water data.**

The Permittee has committed to sampling baseline water parameters one year prior to the renewal date. The next renewal submittal is due 09/04/2006 for renewal on 04/04/2007, so baseline sampling and analysis are to be done in 2006.

**5. Based on your review, what further actions, if any, do you recommend?**

Since September 1998, the water depth in Well #1 has dropped but now appears stable at 72 to 76 feet. This condition will continue to be tracked.

**6. Does the Mine Operator need to submit more information to fulfill this quarter's monitoring requirements?** ☐ Yes ☒ No

**7. Follow-up from last quarter (3rd quarter 2004), if necessary.**

The elevated Cl concentration observed at B351 during the two previous quarters was not seen this quarter.

**8. Did the Mine Operator submit all the missing or irregular data?**

NA